



## Pin Connections

Pin	Symbol	I/O	Function
1	V <sub>DD</sub>	P	Power supply for Logic
2	V <sub>SS</sub>	P	Power ground
3	NC	-	No connection
4	RS	H/L	Data/Command select
5	/WR	H/L	Write signal
6	/RD	H/L	Read signal
7-14	DB0-DB7	H/L	Data bus
15	/CS	H/L	Chip select signal,active "L"
16	/REST	H/L	Reset signal ,active "L"
17	/WAIT	H/L	Wait signal
18	/INT	H/L	Interrupt signal
External Flash control interface			
19	/SCS	H/L	Chip select pin for external serial Flash/ROM
20	SDO	H/L	External Flash/ROM serial data output
21	SDI	H/L	External Flash/ROM serial data input
22	SCLK	H/L	External Flash/ROM serial clock input
TFT screen parameter settings pin (SPI interface) Note1: When customer driver module ,TFT screen parameter settings pin can use default value .When you used default value that you don't need to control it.			
23	NC	-	No connection
24	SPENA	H/L	Enable signal
25	SPCK	H/L	Serial clock input
26	SPDA	H/L	Serial data input/output

## Basic Specifications

Item	Specifications
Size	3.5 inch
Resolution	320×3(RGB)×240
Color depth	65K
Viewing direction	12 o'clock
Operation temperature	-20 °C ~70 °C
Storage temperature	-30 °C ~ 80 °C
Control IC	RA8875
Interface type	8 bits 80-serials parallel MPU interface

## DC Electrical Characteristics&Backlight Driving Conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power supply	V <sub>DD</sub> (5.0V)	4.5	5.0	5.5	V
	V <sub>DD</sub> (3.3V)	3.0	3.3	3.6	
Supply current	I <sub>DD</sub>	-	-	-	mA
Input signal voltage	V <sub>IH</sub>	0.7 VDD	-	VDD	V
	V <sub>IL</sub>	0	-	0.3 VDD	V
Output signal voltage	V <sub>OH</sub>	0.8 VDD	-	VDD	V
	V <sub>OL</sub>	0	-	0.2 VDD	V
Power supply for LED backlight	V <sub>F</sub>	16.8	19.2	21.6	V
Current for LED backlight	I <sub>F</sub>	-	20	25	mA
Operating life time for LED backlight	Ta=25°C and I <sub>F</sub> =20mA	-	20000	-	Hrs

## Optical Specifications

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
View angles	VERT	θT	CR ≥ 10 (Note6)	60	70	-	Degree
		θB		50	60	-	
	HOR	θL		60	70	-	
		θR		60	70	-	
Contrast ratio	CR	θ=0°	200	350	-		
Chromaticity	White	X	Backlight is on	0.25	0.30	0.35	
		Y		0.25	0.30	0.35	
Luminance	L	Without TP Ta=25°C and I <sub>F</sub> =20mA	-	300	-	cd/m <sup>2</sup>	

Note:

1. Built-in RA8875 controller
2. Chinese fonts chip(GB2312) optional
3. 5V/3.3V power supply optional
4. Touch panel controlled by RA8875,touch panel optional
5. LED Backlight controlled by PWM
6. T:Top 12 o'clock; B:Bottom 6 o'clock; L:Left 9 o'clock; R:Right 3 o'clock